CRF Errors Corrected by the STIC Systems Branch Serial Number: <u>09</u> Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_ Inserted mandatory headings, specifically: _ Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected: _ Other:

purrections must be communicated to the applicant in the first Office Examin r: The about Action: DO NOT's nd a copy of this form.

RAW SEQUENCE LISTING PATENT APPLICATION US/09/180,798A

DATE: 04/11/2000 TIME: 10:01:39

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This Raw Listing contains the General Information Section and up to first 5 pages.

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/180,798A

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DATE: 04/11/2000 PATENT APPLICATION US/09/180,798A TIME: 10:01:39

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VERIFICATION SUMMARY PATENT APPLICATION US/09/180,798A

DATE: 04/11/2000 TIME: 10:01:39

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PATENT APPLICATION US/09/180,798A

DATE: 04/11/200
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DATE: 04/11/2000

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23		Leu	Ser	СТА	His		vaı	Pro	GIU	Leu		vaı	Leu	Lys	ASN	ьеu 95	GIN
24		_	_	7	_	85				- 1 -	90	a 1	D	T1.	Dwa) an
25		Tyr	Leu	GIU		туr	ser	Asn	Asn		THE	сту	PIO	Ile	110	Ser	ASII
26		-	al		100	m1	N	T	17.7	105	T 011	R ~ ~	T 011	m		λan	Sor
27		Leu	сту		Leu	Thr	ASN	Leu	120	ser	Leu	ASP	Leu	Tyr 125	пеп	ASII	Ser
28		nl	C	115	Dwa	T1.	Dro	a 1.,		T 011	C1 17	Tuc	LOU	Ser	Γτσ	Γ.Δ11	Ara
29		Pne		GIY	PIO	iie	PIO	135	Ser	Leu	сту	цуз	140	Ser	БУЗ	пеа	AL 9
30		Dha	130	7 ×~	T 011	λαν) an		Sor	LOU	Thr	G] w		Ile	Dro	Mot	Ser
31 32		145	Leu	AIG	Leu	ASII	150	ASII	Ser	Бец	1111	155	Der	110		1100	160
			mb ×	λan	Tla	Thr	-	Len	Gln	U a l	T. 611	-	T.e.u	Ser	Δsn	Δsn	
33 34		ьeu	1111	ASII	TTE	165	1111	Беа	GIII	Val	170	иор	Dea	501	11011	175	9
35		LOU	Sor	Glv	Sor		Pro	۵sn	Δsn	G] v		Phe	Ser	Leu	Phe		Pro
36		Leu	Ser	GLY	180	V 01 1	110	Top	no.	185	501		201		190		
37		Tle	Ser	Phe		Asn	Asn	Leu	Asp		Cvs	Glv	Pro	Val		Ser	His
38		110	501	195	n. u				200		-] -	1		205			
39		Pro	Cvs		Glv	Ser	Pro	Pro		Ser	Pro	Pro	Pro	Pro	Phe	Ile	Gln
3,		110	Cys	- 10	J±y	501											

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40		210					215					220				
41	Pro	Pro	Pro	Val	Ser	Thr	Pro	Ser	Gly	Tyr	Gly	Ile	Thr	Gly	Ala	Ile
42	225					230					235					240
43	Ala	Gly	Gly	Val	Ala	Ala	Gly	Ala	Ala	Leu	Pro	Phe	Ala	Ala	Pro	Ala
44					245					250					255	
45	Ile	Ala	Phe	Ala	Trp	Trp	Arg	Arg	Arg	Ser	Pro	Leu	Asp	Ile	Phe	Phe
46				260					265					270		
47	Asp	Val	Pro	Ala	Glu	Glu	Asp	Pro	Glu	Val	His	Leu	Gly	Gln	Leu	Lys
48			275					280					285			
49	Arg	Phe	Ser	Leu	Arg	Glu	Leu	Gln	Val	Ala	Ser	Asp	Gly	Phe	Ser	Asn
50 .		290					295					300				
51	Lys	Asn	Ile	Leu	Gly	Arg	Gly	Gly	Phe	Gly	Lys	Val	Tyr	Lys	Gly	Arg
52	305					310					315					320
53	Leu	Ala	Asp	Gly	Thr	Leu	Val	Ala	Val	_	Arg	Leu	Lys	Glu	Glu	Arg
54					325					330					335	
55	Thr	Pro	Gly	Gly	Glu	Leu	Gln	Phe	Gln	Thr	Glu	Val	Glu	Met	Ile	Ser
56				340					345					350		
57	Met	Ala		His	Arg	Asn	Leu	Leu	Arg	Leu	Arg	Gly	Phe	Cys	Met	Thr
58			355					360					365			
59	Pro		Glu	Arg	Leu	Leu		Tyr	Pro	Tyr	Met		Asn	Gly	Ser	Val
60		370					375					380				
61		Ser	Cys	Leu	Arg		Arg	Pro	Pro	Ser		Pro	Pro	Leu	Asp	_
62	385					390					395					400
63	Pro	Thr	Arg	Lys	Arg	Ile	Ala	Leu	Gly		Ala	Arg	Gly	Leu		Tyr
64					405					410					415	
65	Leu	His	Asp		Cys	Asp	Pro	Lys		Ile	His	Arg	Asp		Lys	Ala
66		_		420	_	_			425				-	430		
67	Ala	Asn		Leu	Leu	Asp	GLu		Phe	GLu	АТа	Val		СТÄ	Asp	Phe
68		_	435	_	_		_	440	_	_			445	_,	_,	
69	GTÀ		Ala	Lys	Leu	Met	_	Tyr	Lys	Asp	Thr		Val	Thr	Thr	АТа
70		450		_,			455			_		460	_		-1	~7
71		Arg	GTÀ	Thr	тте	-	His	тте	АТа	Pro		тyr	Leu	ser	Thr	Gly
72	465	~	~	~1	•	470	•		51	~ 1	475	a1	-1 -	14 - 1	.	480
73	ьys	Ser	Ser	GIU	Lys	Thr	Asp	vai	Pne	-	туг	GTA	тте	мет		Leu
74	a 1	.	- 1 -	m1	485	a 3	•		Dl	490	*		3	T	495	3
75	GIU	Leu	тте		GIY	GIN	Arg	АТа		ASP	ьeu	Ата	arg		АТа	Asn
76	3	3	3	500	34 - A	T	T	1	505	*** 7	T	al	T	510	T	a 1
77	ASP	ASP		vaı	мет	Leu	Leu	_	тгр	vaı	гуѕ	GTĀ		Leu	ьys	Glu
78	T	T	515	a 1	14 ~+	T	17.7	520	Dwa	3 ~ ~	T	<u>ما ب</u>	525	7 ~ ~	M	a 1
79 80	гуѕ	ьуs 530	Leu	GIU	мес	Leu		Asp	PIO	ASP	Leu		THI	ASI	туг	Glu
81	a1.,		a1	Т	01. .	a1 n	535	т1.	a1 n	v. l	. ד ג	540	T 011	O., a	mb ×	aln
82	545	Arg	GLU	Leu	GIU	550	vат	тте	GIII	vaı	555	rea	ьeu	Cys	1111	Gln 560
83		Cor	Dro	Wat	Glu		Dro	T	Mot	Cor		v. l	Val.	λ ~ ~	Mot	
	СТУ	Ser	PIO	мес	565	Arg	PIO	цуз	мес	570	GIU	Val	vaı	Arg		Leu
84	a1	d1 +-	λ ~~	a1	Leu	. רג	<i>a</i> 1	T ***	Пττ		Gl v	Ψνν	@1 x	T 17~	575	Gl v
85 86	GIU	оту	нар	580	ьeu	мта	GIU	гуз	585	нар	GIU	тър	GTII	ьуs 590	val	GIU
87	Tla	Len	A ~~		Glu	Tla	Λαν	Τ. Δ11		Dra	Δen	Dra	Acn		Aen	ጥተካ
88	TTG	пеп	595	GIU	GIU	TTE	wah	600	SEI	FIO	HOII	FIO	605	⊃∈T	rah	тъ
89	Tle	Leu		Ser	Thr	Петъ	λαν		Hie	λΊο	Val	Glu.		Ser	G1 17	Dro
0)	TTG	ne a	wab	261	1111	туг	HOII	neu	1112	чта	val	GIU	Leu	ner	сту	FIO

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90 610 91 Arg 92 625 93 33 E--> 94

VERIFICATION SUMMARY PATENT APPLICATION US/09/180,798A

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Line ? Error/Warning Original Text

94 E Invalid/Missing Amino Acid Numbering